Message

From: Strynar, Mark [Strynar.Mark@epa.gov]
Sent: 5/12/2020 6:33:10 PM
To: Volz, Stephanie [Volz.Stephanie@epa.gov]; Zintek, Lawrence [zintek.lawrence@epa.gov]; Hurlbut, Daniel B. [Hurlbut.Daniel@epa.gov]
Subject: Re: Current PFAS Target List
Attachments: Chemours effluent HFPO-DA.jpg

Here is a TOF data file for the Chemours effluent here in NC. All ions co-align as I do not have MS/MS capabilities on the instrument I used to run the samples. Additionally on the spectra if you see the H+ dimer and Na+ dimer they always differ by the MW difference between H+ and Na+.

I think thee was also a 119 MW ion I cutoff for this.

Mark

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From: Strynar, Mark <Strynar.Mark@epa.gov>
Sent: Tuesday, May 12, 2020 2:11 PM
To: Volz, Stephanie <Volz.Stephanie@epa.gov>; Zintek, Lawrence <zintek.lawrence@epa.gov>; Hurlbut, Daniel B. <Hurlbut.Daniel@epa.gov>
Subject: Re: Current PFAS Target List

Stephanie,

If you see the dimer and the two fragments and the RT and ion ratios are consistent with your standard I would conclude as you did. It just really surprises me being at a 3M plant rather than DuPont or Chemours. I have other standards but none should give that compound, or have the same RT.

I have my Agilent software and processing PC at home. If you sent me one data file that has the HFPO-DA I could look at it for confirmation.

Mark

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From: Volz, Stephanie <Volz.Stephanie@epa.gov>
Sent: Tuesday, May 12, 2020 12:36 PM
To: Strynar, Mark <Strynar.Mark@epa.gov>; Zintek, Lawrence <zintek.lawrence@epa.gov>; Hurlbut, Daniel B. <Hurlbut.Daniel@epa.gov>
Subject: RE: Current PFAS Target List

Thanks for the info. I'll have to learn to check Envirofacts for our cases. You're right there is a lot of information that could be compiled or searched better.

On the QTOF, I did MSMS on the dimer and observed the parent ion and 2 fragments. It's possible that it could be breakdown or trimer of some other compound but when it matches my standard I've covered my bases. Do you have standards for these other ethers? Would these compounds have the same retention time?

From: Strynar, Mark <Strynar.Mark@epa.gov>
Sent: Tuesday, May 12, 2020 8:33 AM
To: Volz, Stephanie <Volz.Stephanie@epa.gov>; Zintek, Lawrence <zintek.lawrence@epa.gov>; Hurlbut, Daniel B. <Hurlbut.Daniel@epa.gov>
Subject: Re: Current PFAS Target List

Here are the chemicals on the Envirofacts website for the 3M Cordova IL site. I am still concerned [redacted]

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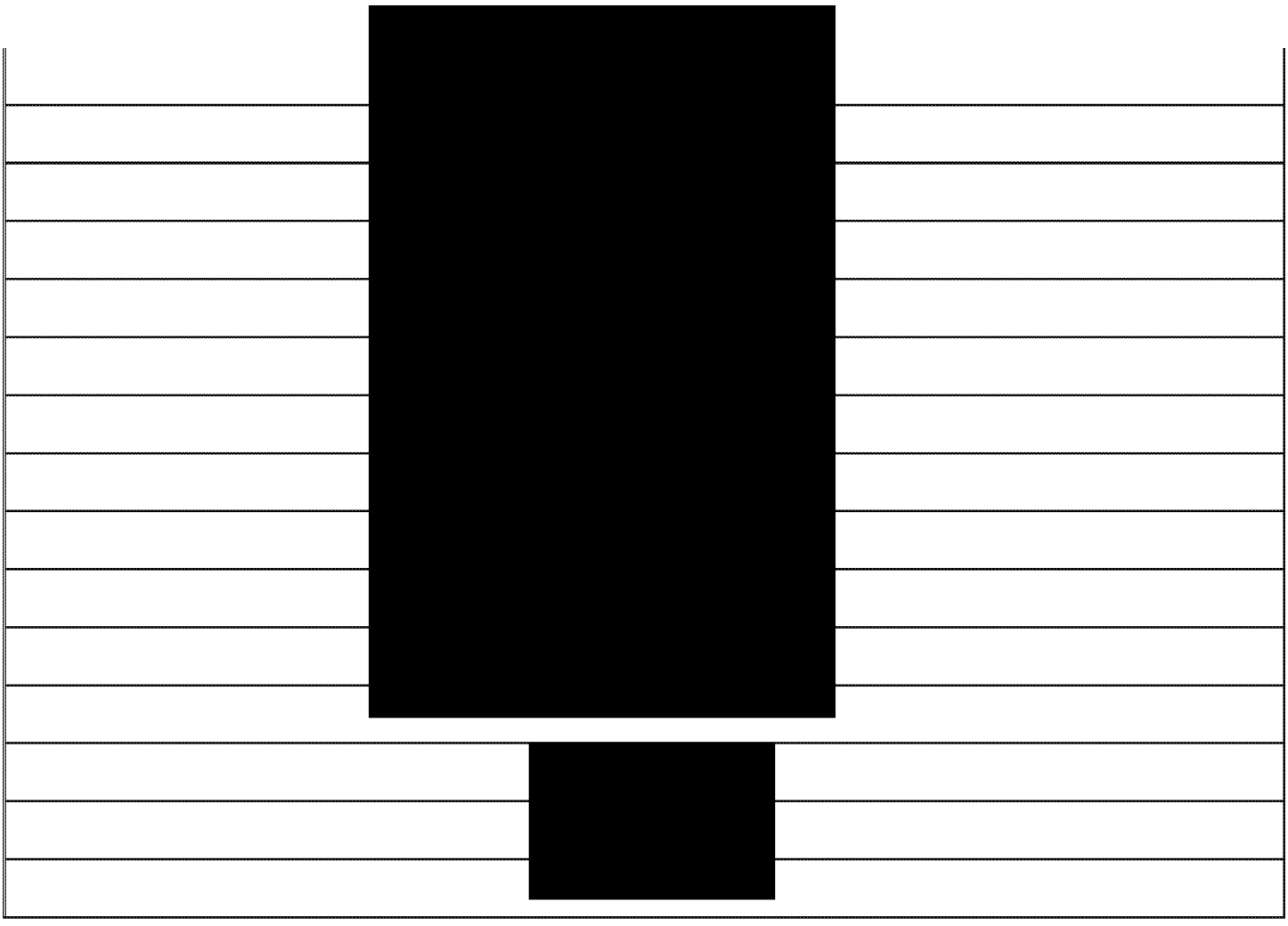
From: Volz, Stephanie <Volz.Stephanie@epa.gov>
Sent: Monday, May 11, 2020 4:14 PM
To: Strynar, Mark <Strynar.Mark@epa.gov>; Zintek, Lawrence <zintek.lawrence@epa.gov>; Hurlbut, Daniel B. <Hurlbut.Daniel@epa.gov>
Subject: RE: Current PFAS Target List

So nice to chat with people who know about PFAS.
I'll look for this mass when I have access to the lab. I was able to look through 1 sample and the closest I observe is 280.9841 but the associated ions weren't apparent at those retention times.

I know you're gearing up for a bunch of samples and need to buy standards. These are the compounds I would target from the QTOF non-target list.

4,4'-(Hexafluoroisopropylidene) diphenol
ADONA

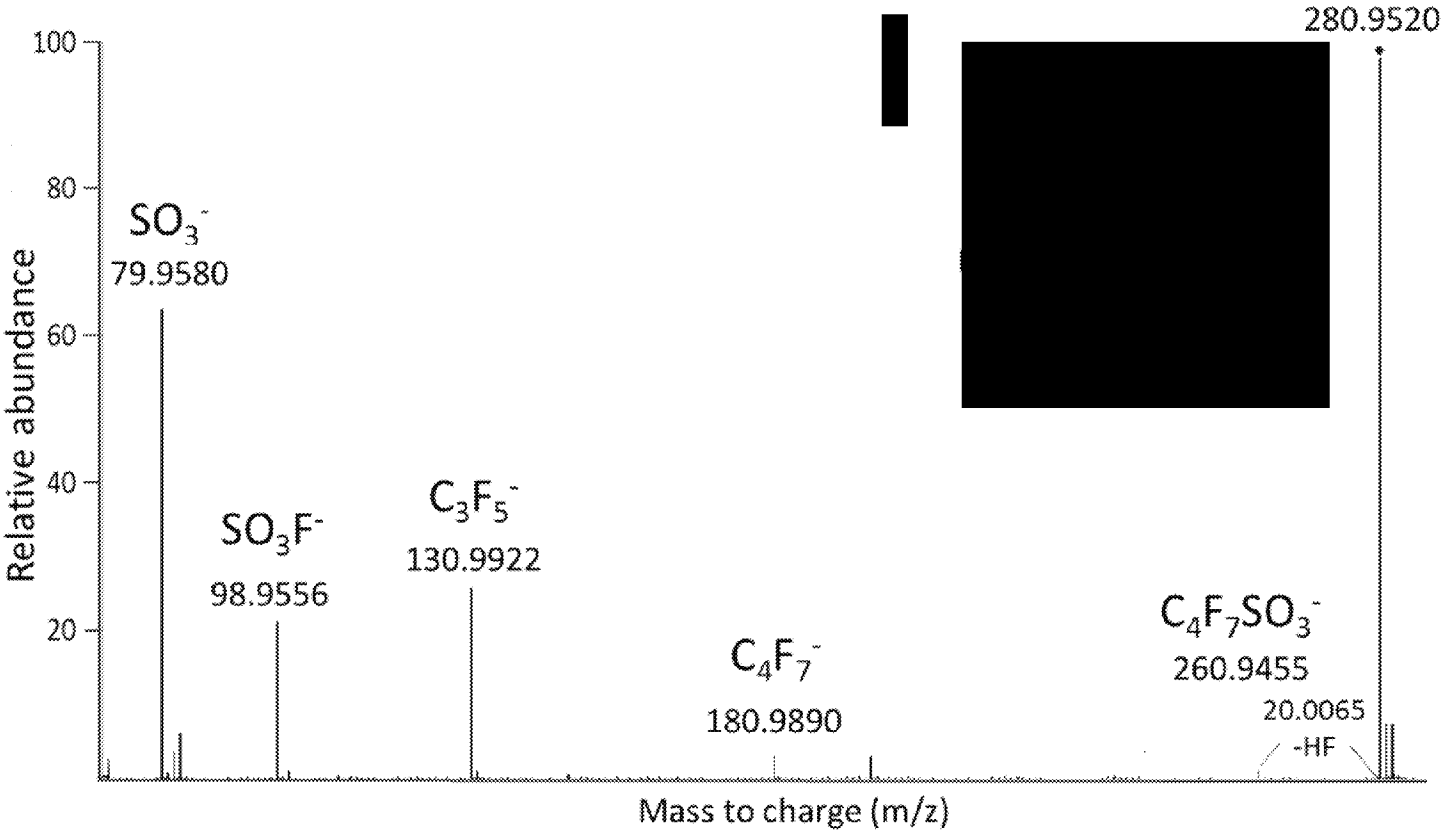


From: Strynar, Mark <Strynar.Mark@epa.gov>
Sent: Monday, May 11, 2020 8:02 AM
To: Volz, Stephanie <Volz.Stephanie@epa.gov>; Zintek, Lawrence <zintek.lawrence@epa.gov>; Hurlbut, Daniel B. <Hurlbut.Daniel@epa.gov>
Subject: Re: Current PFAS Target List

Thanks Stephanie. Can you share which analytes were found in the water samples and at what concentrations for the discussion today?

Also I added structures to the Excel spreadsheet for my benefit. I did not include those for the Chemours compound in NC, or some I think we all may know the structure of. I saw a few things I pointed out. Missing or mismatched CAS. I added a CAS you did not have etc...

I did not see this compound in your list> It was one of the largest peaks we found in Decatur, AL. Can you check for it?



Mark

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From: Volz, Stephanie <Volz.Stephanie@epa.gov>
Sent: Thursday, May 7, 2020 4:37 PM
To: Zintek, Lawrence <zintek.lawrence@epa.gov>; Strynar, Mark <Strynar.Mark@epa.gov>; Hurlbut, Daniel B. <Hurlbut.Daniel@epa.gov>
Subject: Current PFAS Target List

I tried to upload it to the meeting request but it doesn't look like that worked.
Enjoy and talk to you Monday.

Stephanie Volz
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